

## A pseudo Assembler in ACTION!#

### General Information

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Language: ACTION!

Compiler/Interpreter: ACTION!

Published: The Software Cellar

PDF: [assem\\_doc.PDF](#)

```
; ASSEM.ACT - ACTION! pseudo-assembler
;   NOT copyrighted at any time
;
;       Programmed by
;       Allen D. Doum
;       Downloaded from
;       THE SOFTWARE CELLAR
;       (714) 772-9671
;
; compiler must be CASE SENSITIVE to use

; assembler commands

DEFINE CODE="[", ENDC="]"

; single byte instructions

DEFINE Brk="$00",
        Clc="$18", Cld="$D8", Cli="$58",
        Clv="$B8", Dex="$CA", Dey="$88",
        Inx="$E8", Iny="$C8", Nop="$EA",
        Pha="$48", Php="$08", Pla="$68",
        Plp="$28", Rti="$40", Rts="$60",
        Sec="$38", Sed="$E8", Sei="$78",
        Tax="$AA", Tay="$A8", Tsx="$BA",
        Txa="$8A", Txs="$9A", Tya="$98"

; single mode only instructions

DEFINE Bcc="$90", Bcs="$B0", Beq="$F0",
        Bmi="$30", Bne="$D0", Bpl="$10",
        Bvc="$50", Bvs="$70", Jsrf="$20"

; other instructions require addressing modes (below)

DEFINE Adc="$61+", And="$21+", Asl="$02+",
        Bit="$20+", Cmp="$C1+", Cpx="$E0+",
        Cpy="$C0+", Dec="$C2+", Eor="$41+",
        Inc="$E2+", Jmp="$40+", Lda="$A1+",
        Ldx="$A2+", Ldy="$A0+", Lsr="$42+",
        Ora="$01+", Rol="$22+", Ror="$62+",
        Sbc="$E1+", Sta="$81+", Stx="$82+",
        Sty="$80+"

; mode operations - use following above

DEFINE PZ="$04", ;page zero
        PZi="$14", ;page zero indexed
        PZx="$14", ;page zero index X
```

PZy="\$14", ;page zero index Y  
IN = "\$2C", ;indirect  
INx="\$00", ;X indirect  
INy="\$10", ;Y indirect  
AB = "\$0C", ;absolute  
ABx="\$1C", ;absolute X  
ABy="\$18", ;absolute Y (expt LDX)  
ABi="\$1C", ;Ldx absolute Y  
AC = "\$08", ;accumutator  
IM = "\$08", ;immediate (expt below)  
IMi="\$00" ;immediate (Ldy,Ldx,Cpy,Cpx)